East Venezuela Fold and Thrust Belt, Assessment Unit 60980101 Assessment Results Summary

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

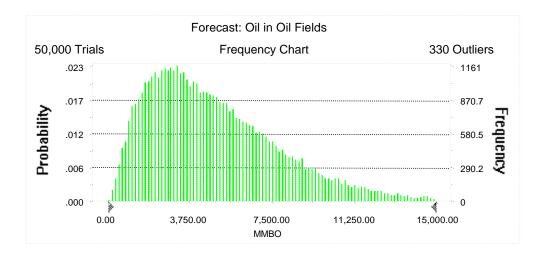
Field	MFS	S Prob.	Undiscovered Resources								Largest Undiscovered Field							
Type			Oil (MMBO)				Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)					
. 7 -		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	4	1.00	1,095	4,340	10,776	4,928	2,049	8,421	22,670	9,868	114	491	1,414	592	246	1,031	4,029	1,412
Gas Fields	24						2,655	10,403	23,545	11,430	110	445	1,096	504	610	2,222	7,770	2,900
Total		1.00	1,095	4,340	10,776	4,928	4,704	18,824	46,215	21,298	224	936	2,510	1,096				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 15,000.00 MMBO Entire range is from 75.76 to 25,272.27 MMBO After 50,000 trials, the standard error of the mean is 13.70

Statistics:	<u>Value</u>
Trials	50000
Mean	4,927.85
Median	4,340.08
Mode	
Standard Deviation	3,063.63
Variance	9,385,820.59
Skewness	1.05
Kurtosis	4.33
Coefficient of Variability	0.62
Range Minimum	75.76
Range Maximum	25,272.27
Range Width	25,196.52
Mean Standard Error	13.70



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

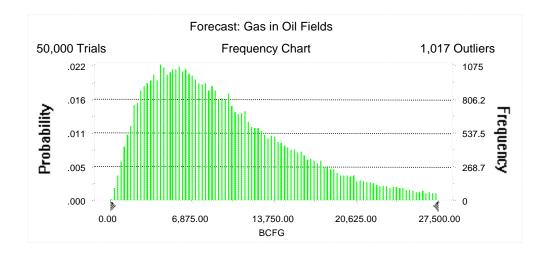
<u>Percentile</u>	MMBO
100%	75.76
95%	1,094.96
90%	1,532.74
85%	1,904.65
80%	2,254.77
75%	2,596.86
70%	2,926.97
65%	3,257.32
60%	3,592.83
55%	3,960.84
50%	4,340.08
45%	4,733.99
40%	5,155.61
35%	5,602.61
30%	6,107.21
25%	6,666.20
20%	7,294.92
15%	8,079.76
10%	9,100.31
5%	10,775.98
0%	25,272.27

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 27,500.00 BCFG Entire range is from 172.45 to 58,577.52 BCFG After 50,000 trials, the standard error of the mean is 29.51

Trials 5	0000
Mean 9,86	8.50
Median 8,42	20.72
Mode	
Standard Deviation 6,59	7.85
Variance 43,531,68	30.71
Skewness	1.29
Kurtosis	5.28
Coefficient of Variability	0.67
Range Minimum 17	72.45
Range Maximum 58,57	7.52
Range Width 58,40)5.07
Mean Standard Error	29.51



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

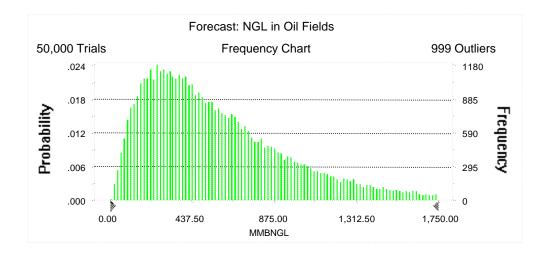
<u>Percentile</u>	<u>BCFG</u>
100%	172.45
95%	2,048.86
90%	2,882.78
85%	3,618.21
80%	4,302.19
75%	4,960.10
70%	5,628.24
65%	6,282.92
60%	6,955.65
55%	7,675.40
50%	8,420.72
45%	9,215.62
40%	10,051.40
35%	10,994.64
30%	12,040.83
25%	13,282.15
20%	14,700.96
15%	16,409.75
10%	18,741.55
5%	22,670.30
0%	58,577.52

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 1,750.00 MMBNGL Entire range is from 9.69 to 4,647.64 MMBNGL After 50,000 trials, the standard error of the mean is 1.88

Statistics: Trials	<u>Value</u> 50000
Mean	591.98
Median	491.14
Mode	
Standard Deviation	420.43
Variance	176,758.25
Skewness	1.47
Kurtosis	6.22
Coefficient of Variability	0.71
Range Minimum	9.69
Range Maximum	4,647.64
Range Width	4,637.95
Mean Standard Error	1.88



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

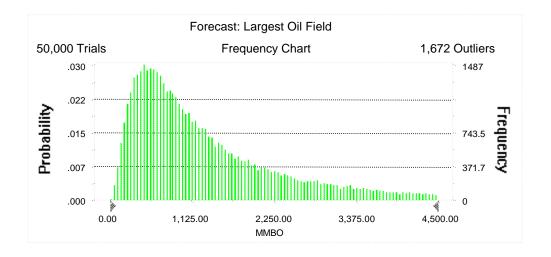
<u>Percentile</u>	MMBNGL
100%	9.69
95%	114.44
90%	163.63
85%	205.16
80%	245.08
75%	283.13
70%	321.59
65%	362.77
60%	402.82
55%	445.04
50%	491.14
45%	541.54
40%	595.01
35%	653.91
30%	717.31
25%	793.43
20%	883.65
15%	996.54
10%	1,152.65
5%	1,414.27
0%	4,647.64

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 4,500.00 MMBO Entire range is from 17.91 to 5,999.98 MMBO After 50,000 trials, the standard error of the mean is 5.27

Statistics:	<u>Value</u>
Trials	50000
Mean	1,412.33
Median	1,031.43
Mode	
Standard Deviation	1,177.76
Variance	1,387,120.80
Skewness	1.56
Kurtosis	5.21
Coefficient of Variability	0.83
Range Minimum	17.91
Range Maximum	5,999.98
Range Width	5,982.06
Mean Standard Error	5.27



Forecast: Largest Oil Field (cont'd)

Percentiles:

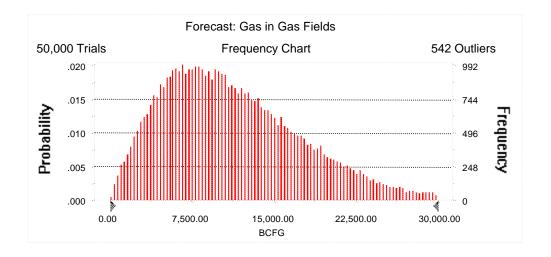
Percentile	MMBO
100%	17.91
95%	245.85
90%	338.86
85%	420.11
80%	497.62
75%	574.96
70%	653.51
65%	736.35
60%	828.10
55%	924.25
50%	1,031.43
45%	1,149.68
40%	1,286.37
35%	1,439.73
30%	1,627.82
25%	1,864.38
	•
20%	2,156.30
15%	2,534.95
10%	3,085.95
5%	4,028.99
0%	5,999.98

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 30,000.00 BCFG Entire range is from 130.29 to 47,439.50 BCFG After 50,000 trials, the standard error of the mean is 29.32

Statistics:	<u>Value</u>
Trials	50000
Mean	11,429.94
Median	10,403.38
Mode	
Standard Deviation	6,556.60
Variance	42,989,017.67
Skewness	0.84
Kurtosis	3.74
Coefficient of Variability	0.57
Range Minimum	130.29
Range Maximum	47,439.50
Range Width	47,309.22
Mean Standard Error	29.32



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

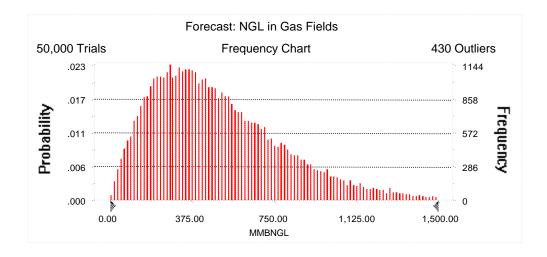
BCFG
130.29
2,655.01
3,849.54
4,802.73
5,655.81
6,441.33
7,229.54
7,999.77
8,782.35
9,597.54
10,403.38
11,241.33
12,171.77
13,124.96
14,180.80
15,356.18
16,698.49
18,333.44
20,422.57
23,544.70
47,439.50

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 1,500.00 MMBNGL Entire range is from 4.59 to 2,901.26 MMBNGL After 50,000 trials, the standard error of the mean is 1.39

Statistics:	<u>Value</u>
Trials	50000
Mean	503.54
Median	445.20
Mode	
Standard Deviation	311.80
Variance	97,217.81
Skewness	1.10
Kurtosis	4.70
Coefficient of Variability	0.62
Range Minimum	4.59
Range Maximum	2,901.26
Range Width	2,896.67
Mean Standard Error	1.39



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

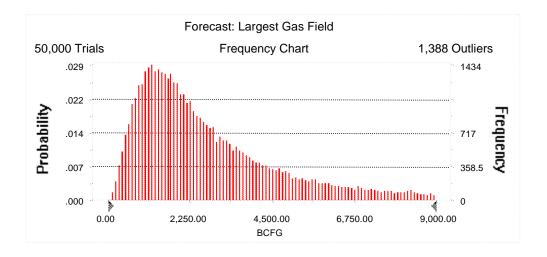
<u>Percentile</u>	MMBNGL
100%	4.59
95%	109.63
90%	158.46
85%	199.08
80%	235.18
75%	270.61
70%	304.78
65%	339.26
60%	373.15
55%	408.10
50%	445.20
45%	483.85
40%	525.28
35%	568.86
30%	619.36
25%	675.54
20%	738.29
15%	818.52
10%	922.99
5%	1,095.85
0%	2,901.26

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 9,000.00 BCFG Entire range is from 47.46 to 11,999.61 BCFG After 50,000 trials, the standard error of the mean is 9.95

Statistics:	<u>Value</u>
Trials	50000
Mean	2,900.35
Median	2,221.71
Mode	
Standard Deviation	2,223.98
Variance	4,946,072.42
Skewness	1.54
Kurtosis	5.30
Coefficient of Variability	0.77
Range Minimum	47.46
Range Maximum	11,999.61
Range Width	11,952.15
Mean Standard Error	9.95



Forecast: Largest Gas Field (cont'd)

Percentiles:

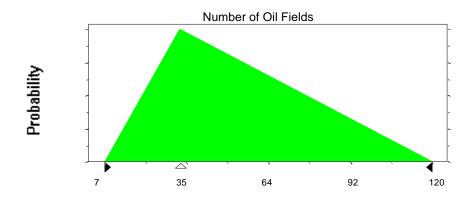
<u>Percentile</u>	<u>BCFG</u>
100%	47.46
95%	609.51
90%	827.19
85%	1,007.22
80%	1,168.01
75%	1,328.12
70%	1,492.01
65%	1,660.72
60%	1,830.73
55%	2,015.90
50%	2,221.71
45%	2,446.63
40%	2,707.75
35%	3,004.34
30%	3,355.96
25%	3,766.25
20%	4,300.16
15%	4,984.70
10%	6,008.01
5%	7,769.67
0%	11,999.61

Assumptions

Assumption: Number of Oil Fields

Minimum	7
Likeliest	33
Maximum	120

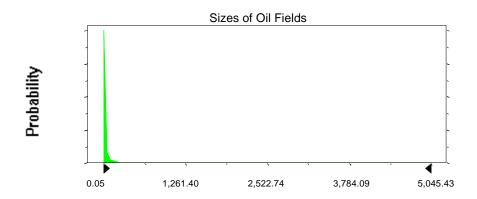
Selected range is from 7 to 120 Mean value in simulation was 53



Assumption: Sizes of Oil Fields

Lognormal distribution with para	meters:	Shifted parameters
Mean	100.66	104.66
Standard Deviation	625.20	625.2
Selected range is from 0.00 to 5,996.00		4.00 to 6,000.00
Mean value in simulation was 88 84		92 84

Assumption: Sizes of Oil Fields (cont'd)



Assumption: GOR in Oil Fields

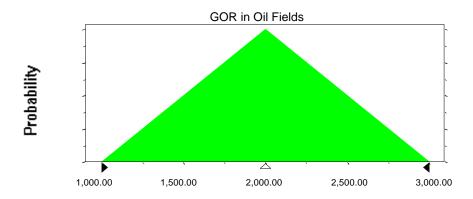
Triangular distribution with parameters:

 Minimum
 1,000.00

 Likeliest
 2,000.00

 Maximum
 3,000.00

Selected range is from 1,000.00 to 3,000.00 Mean value in simulation was 2,000.89



Assumption: LGR in Oil Fields

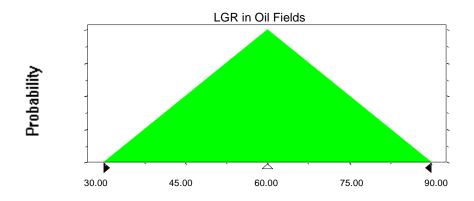
Triangular distribution with parameters:

 Minimum
 30.00

 Likeliest
 60.00

 Maximum
 90.00

Selected range is from 30.00 to 90.00 Mean value in simulation was 60.00



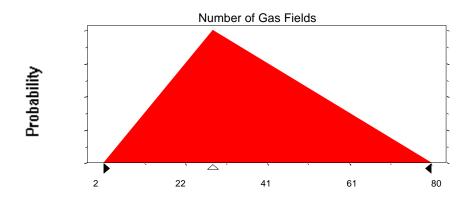
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum 2 Likeliest 28 Maximum 80

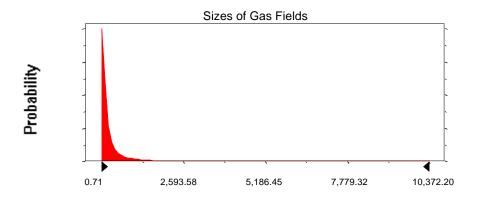
Selected range is from 2 to 80 Mean value in simulation was 37

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with para	ameters:	Shifted parameters
Mean	308.08	332.08
Standard Deviation	1,059.79	1,059.79
Selected range is from 0.00 to 11,976.00		24.00 to 12,000.00
Mean value in simulation was 288.20		312.2

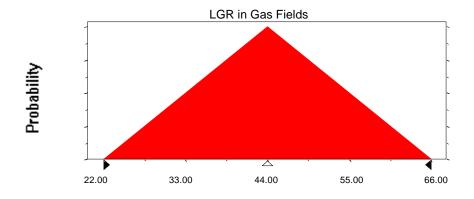


Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	22.00
Likeliest	44.00
Maximum	66.00

Selected range is from 22.00 to 66.00 Mean value in simulation was 44.07



End of Assumptions

Simulation started on 7/16/99 at 9:34:32 Simulation stopped on 7/16/99 at 10:23:14